



Summary of Instructional Analysis Ratings in Life Science

Textbook Series

Instructional Categories

Glencoe Life, Earth, and Physical Science
Glencoe/McGraw-Hill

Macmillan/McGraw-Hill Science
Macmillan/McGraw-Hill

Middle School Science and Technology
Kendall/Hunt

Prentice Hall Science
Prentice-Hall

PRIME Science
Kendall/Hunt

Science 2000
Decision Development Corp.

Science Insights
Addison-Wesley

Science Interactions
Glencoe/McGraw-Hill

SciencePlus
Holt, Rinehart & Winston

I. PROVIDING A SENSE OF PURPOSE	Glencoe/McGraw-Hill	Macmillan/McGraw-Hill	No content match to life science ideas	Prentice-Hall	Kendall/Hunt	Decision Development Corp.	Addison-Wesley	Glencoe/McGraw-Hill	Holt, Rinehart & Winston	
Conveying unit purpose	■	□		□	■	■	■	■	■	■
Conveying lesson purpose	■	□		■	■	■	■	■	■	■
Justifying activity sequence	■	■		■	■	■	■	■	■	■
II. TAKING ACCOUNT OF STUDENT IDEAS										
Attending to prerequisite knowledge and skills	■	■		■	■	■	■	■	■	■
Alerting teacher to commonly held student ideas	■	□		■	■	■	■	■	■	■
Assisting teacher in identifying own students' ideas	■	□		■	■	■	■	■	■	■
Addressing commonly held ideas	■	■		■	■	■	■	■	■	■
III. ENGAGING STUDENTS WITH RELEVANT PHENOMENA										
Providing variety of phenomena	■	■		■	■	■	■	■	■	■
Providing vivid experiences	■	■		■	■	■	■	■	■	■
IV. DEVELOPING AND USING SCIENTIFIC IDEAS										
Introducing terms meaningfully	■	■		■	■	■	■	■	■	■
Representing ideas effectively	■	■		■	■	■	■	■	■	■
Demonstrating use of knowledge	■	■		■	■	■	■	■	■	■
Providing practice	■	■		■	■	■	■	■	■	■
V. PROMOTING STUDENT THINKING ABOUT PHENOMENA, EXPERIENCES, AND KNOWLEDGE										
Encouraging students to explain their ideas	■	■		■	■	■	■	■	■	■
Guiding student interpretation and reasoning	■	□		■	■	■	■	■	■	■
Encouraging students to think about what they've learned	■	■	■	■	■	■	■	■	■	
VI. ASSESSING PROGRESS										
Aligning assessment to goals	■	■	■	■	■	■	■	■	■	
Testing for understanding	■	■	■	■	■	■	■	■	■	
Using assessment to inform instruction	■	■	■	■	■	■	■	■	■	

■ = Poor (0-1); □ = Fair (1.5); □ = Satisfactory (2); ■ = Very Good (2.5); ■ = Excellent (3)